

ORIGINAL (Red)

September 28, 1984 R-585-4-4-32 68-01-6699

Mr. Harold Byer
U.S. Environmental Protection Agency
Sixth and Walnut Streets
Philadelphia, PA 19106

Subject:

Peer Review Comments TDD No. F3-8403-07 Rhinehart Tire Dump Winchester, Virginia

Dear Mr. Byer:

Submitted herewith are the responses to the peer review comments for the subject project made by Darius Ostrauskas.

- o Revisions have been made to the cover letter as requested.
- o The summary has been revised as requested. -
- o The Emergency Response Team has been removed from section 2.2.
- o In section 2.6, the estimate of the volume of materials remaining on site as of April 2, 1984, was made by Mac Sterrett of the Virginia Water Control Board (refer to appendix F). The last sentence has been changed as per request (refer to revision in text for clarification).
- o The geology of the vicinity has been more accurately stated in section 3.2.
- o The soil survey has not been completed for this county. A description of the soil has been added to section 3.2 based on field work performed by Thomas Stone of IT Corporation.
- o The Chemung Formation is 1,500 feet thick in this area. The underlying formation is the Brailler which is composed of a greenish-brown micaceous shale with thin intercalated layers of fine-grained gray sandstone according to the Commonwealth of Virginia Department of Conservation and Economic Development, Division of Mineral Resources map (see appendix E).
- o A more accurate description of the overburden has been provided in section 3.2.

Mr. Harold Byer U.S. Environmental Protection Agency September 28, 1984 Rhinehart Tire Dump Page 2

- The aquifer, for our purposes, consists of the Chemung Formation.
- o The statements describing the shallow and deep zones are misleading. The only formation involved is the Chemung. The nature of the aquifer has been clarified in the section 3.3.
- o Greater conductivity in the deeper zone has been explained in section 3.3.
- o The deep zone, as described in section 3.3, is erroneous and has been clarified. The 7 wells installed by IT Corporation have bottom elevations which cover a 168 foot range. Because the wells were placed on a hill-side, it is difficult to say just what zones within the Chemung are monitored without having the wells surveyed in and plotted on a topographic cross section of the area. This type of information may be available from IT Corporation once they have finalized their report.
- o No groundwater flow direction maps are available for the site area. Groundwater flow direction was estimated based on the structure of the formation in the site area.
- o It has been indicated in section 3.7 that 40 homes account for an estimated 152 residents (3,840) and that all of these residents draw from the aquifer of concern.
- o Sections 3.6 and 3.7 have been revised as per received comments (refer to text for clarification).
- o The last sentence in section 4.0 has been revised based on received comments (refer to text for clarification).
- o The site inspection and preliminary assessment forms have been corrected accordingly.

If you have any questions, please contact me.

Respectfully submitted.

Reviewed by,

Garth Glenn

Richard Gorrell

Environ. Engineer

William Wentworth

Asst. Manager, Reports

Manager, FIT III

DW/ral

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ORIGINAL (Red)

Region III - 6th & Wainut Sta.

Phil	ladelohi:	a. Pa. 1	19 106

SUBJECT: Request Assistance from FIT Office	DATE: 9/20/84
Site Investigation and Support Section(3HW23) Si	mund Skernolis, Chief te Investigation and pport Section (3HW23)
I. SITE NAME: Phinehart Tire Fire Dimp	(VA-Z78)
I. SITE NAME: Rhinehart Tire Fire Dimp II. LOCATION: Winchester, VA	DSN .
III. WORK ASSIGNMENT: Preliminary Assessment Quality Ass Site Inspection Re-Sampling	urance Review of Data /Full Field Investigati Corrections VI below)
IV. PRIORITY: High(*) Medium Low Date	red Deadline: : by end of Sept.
VI. EXPLANATION OF TASK (* To include justification for hi	gh priority):
See peer review tomments by Danis Ostrais Kas = (3 pgs.))
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
VII. To be completed by FIT Coordinator only: Task complete date by FIT:	RW Butch
•	AR 1004 d 1

Rhinehart Tire Kire Winchester, VA Onthesk Top PA/SI Ougust 17, 1984

TOD # F3-8403-07

EPA no. VA-278

Comments by: Map

For: Darius O

Sept. 19, 1984

Jhis whole section could stand rewording—

3rd paragraph especially. There are many grammatical

errors and wording is such that intent is

sunctear.

Dround water monitor wells are constructed around the site. Development is something done to the wells to ensure they are functioning properly.

Separate Seology from soil!

Seology and soil are two separate
entities. Shological Studies have
nothing to do with soils. Also gray shall
and sandstones of Devorian age are
not soils either!

-How thick is the Cheming formation,
any other formations beneath it?

- Any structural features present?

- What also the 20-30 feet of overburden

consist of?

3.3 Groundwater

- Does the aquifer have a name?

- One the different zones considered separate

aquifers or do they act as one?

- Slow do you know there's contamination

in the deeper zone, when the deepest

monitor well is only 71,5 feet and

the deeper zone year refer to is 100-300 find

deep.

- Evolundwater flow directions are given, with water level information in appearities E. Where are the flow direction maps granted to get this information? Maps should be included for each time water level measurements was taken.

Phinehart Tire Fire Dump (note: name change) 0R:<u>∆</u>___ (hour Peer Revivo by: Danin Ostranhan 9/20/84 Cover letter: On Feb 13, 1984, the site owner consented to a CERCLA Section 106 order requiring control of runoff on-site. (this should replace the went statement)
(therecan was your for a medial action parse)
delde second statement on consent order, remedial action Sp. 1-1, Sec. 1.3 should read: data and reports supplied by the EPA On-Scene Coordinator (OSC) and the EPA Environmental Response Team (E) should red: On October 31, 1983, the tire dump caught fire and subsequently burnel till ____ p. 1-2, Sec. 1.3 . should read: EPA OSC subsequently authorized the construction of several containment basins ... · sentence regarding order should read as in cover letter.
. should read: wells were constructed in and around the disposal area. Sp. 2-1, Sec 2.2. again, EPA OSC authorized roustantion. p. 2-2, Sec. 7.6 - who estimated 20% remained as of 4/2/84?

· again, consent order is for control of runoff

Peer Nevew - Phurchart Time Fire Dung D.O. 4/20/50813 P. 3-1, Sec. 3.2 geology in vienity is characterized by gray shales ... not soil · what about nature of soils? (worselt Tim Stone, soil survey, etc) · how thuts is Cheming? formations beneath? · what is the nature of the 20-30 overburelen? · doesn't the aguifer for our purposer consent of the Chenny? · are the so-called shallow and deep zones port of the cheming? · any explanation for greater conductivity in deeper zone? · considering the deepest will is 71.5 ft, how do you know the deep zone is contaminated? (100-300 pt deep!) · no maps of ground water blow direction (as generally with water level info in appendix Eth)? p. 3-2, Sec. 3.18 . please indicate that approximately 40 houses (or 132 people) draw from the aguser of concern for dunking water) within a 3 mule rodius og the Chiming Formation p. 4-1, Sec. 4.0 should read: These oils were in part contained ... an undetermined quantity of oil has infeltrated the ground.

· : SI form

Part 1, III

· should read: Inspection initiated by EPA OSC and FRT.

Part 2, II I compute quantity in drums

Part 3

IIA - Population to be potentially affected determined by +125 to be about 152 people.

JB, ... evidence of contamination of intermittent stream.

Jc. some as A

In. potential - order issued to provide contamment via control of runoff

Port 4

400,000 gals for surface impoundment? what does this mean? is there octually 400,000 gals currently on-site? why not check off piles of waste? (unknown quarty)

Part 5

Itt. 02. est. 152 (3 mile radius)

VII led all sources of information for II eg permeabilities PA form

IA checke liquid

TITE N/A

Z. claufy statement on sunoff containment. I thought 800,000 gals were collected. AR100406